Chapter—4

Simple Equations

1. Solve the following equations:

(a) $\frac{3x}{8} = 27$ (b) $5x + 3 = \frac{4}{3}(1 + x)$ (c) $0.15\ (5x - 2) = 0.4\ (x + 1)$

2. Write the following equation in the form of statement:

(a) $\frac{z}{3} + 3 = 30$ (b) $\frac{x}{4} - 4 = 4$

3. Write equations for the following statement :

(a) The length of a rectangle is 5 more than its breadth and its perimeter is 250m.

(b) One third of a number is 8 less than the three times of the number.

4. If $x = y + 2$, then find the value of y in euqation

$$y - \frac{(x-2)}{2} = \frac{2}{3}$$

5. Solve the following equations :

(a) $4 + 5(m - 1) = 34$ (b) $0 = 16 + 4\ (n - 6)$

6. People of Anandgram planted trees in the village garden. Some of the trees were fruit trees. The number of non fruit trees were two more than three times the number of fruit trees.

(a) What was the number of fruit trees planted if the number of non-fruit trees planted was 93.

(b) Write two benefits of plantation of tree.

7. If the difference of two complenentary angles is 10° then find measure of each angle.

8. Find the measure of such angle whose supplementary angle is 35° more than twice of its complementary angle.

9. Set up equaiton and solve it find the unknown number.

"If I take three-fourth of a number and add 3 to it, I get 21."

10. The ratio of Nisha and Nishant ages in 4 : 5.After 10 years the father's age will become 5:6. Find their presant ages.

11. A father is 35 years more than his son's age. After 5 years the father's age will be twice of his son's age. Find the presant age of both.

12. Solve the following riddle :

I am a number
Take me seven times over
Tell my identity!
Take me seven times over
And add a fifty.
To reach a triple century
Your shall need forty.